1145-46-1479   **Sofya S Masharipova*** (`ssm57@pitt.edu`), Dept. of Mathematics, Krebs Hall, 450 Schoolhouse Road, University of Pittsburg-Johnstown, Johnstown, PA 15904, and **Shukhrat M Usmanov** (`shukhrat.usmanov@waldorf.edu`), Dept. of Mathematics, Waldorf University, 106 South 6th Street, Forest City, IA 50436. *Positive functionals on operator algebras on Pontryagin space Pi_1.* Preliminary report.

In the work we define and study positive linear functionals on symmetric algebras of bounded linear operators on Pontryagin space Π_1. Finite and infinite normal trace are considered. For normal states and normal traces on such algebras of some V. S. Shulman's types the theorems of Radon-Nikodym type are proven. Connection with V. S. Shulman's types of such algebras is described (see Math. Sbornik, 1972, No 2). (Received September 22, 2018)